



ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
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Prepared for:

The Chemours Company FC, LLC
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

Report Date: August 23, 2018 17:22

Project: CWK - SC SPB WELL SAMPLING

Account #: 07032
Group Number: 1973093
PO Number: LBIO-67047
State of Sample Origin: NJ

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

To view our laboratory's current scopes of accreditation please go to <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. Historical copies may be requested through your project manager.



SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Sample Collection</u>	<u>ELLE#</u>
	<u>Date/Time</u>	
SPBGW2H18-G05-M08B Groundwater	08/03/2018 08:56	9737848
SPBGW2H18-G05-P03B Groundwater	08/03/2018 10:11	9737849
SPBGW2H18-H05-M01B Groundwater	08/03/2018 12:17	9737850
SPBGW2H18-H05-M03B Groundwater	08/03/2018 11:26	9737851
SPBGW2H18-H05-M04B Groundwater	08/03/2018 13:13	9737852
SPBGW2H18-EB-19 Groundwater	08/03/2018 08:00	9737853
SPBGW2H18-TB-19 Blank Water	08/03/2018 08:00	9737854

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.



DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name: Eurofins Lancaster Laboratories Environmental

Client: The Chemours Company FC, LLC

Project: CWK - SC SPB WELL SAMPLING

Sampling Date(s): 08/03/18

Laboratory Sample ID(s): 9737848-9737854

List DKQP Methods Used (e.g., 8260, 8270, et cetera)

RSKSOP-175 modified; SW-846 8260C; SW-846 8260C SIM; SW-846 8270D

		Yes or No
1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	Yes
1A	Were the method specified handling, preservation, and holding time requirements met?	No
1B	EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes
3	Were samples received at an appropriate temperature (</=6° C)?	Yes
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	No
5A	Were reporting limits* specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	Yes
5B	Were these reporting limits met?	No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Data of Known Quality."

*The Limit of Quantitation (LOQ) meets requirements for the Reporting Limit (RL) as defined in the NJDEP Data of Known Quality performance standards, unless otherwise noted.



Dorothy M. Love
Director

08/23/2018

Project Name: CWK - SC SPB WELL SAMPLING
ELLE Group #: 1973093

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below.

Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set.

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:**SW-846 8260C, GC/MS Volatiles****Sample #s: 9737850**

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

Sample #s: 9737848, 9737849, 9737851, 9737852, 9737853, 9737854

The percent drift for the following is >20% in the continuing calibration verification standard associated with this sample: 1,1,2,2-Tetrachloroethane

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained for 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

Batch #: 5182271AA (Sample number(s): 9737848-9737849, 9737851-9737854)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD exceeded the acceptance window indicating a positive bias: Carbon Tetrachloride

SW-846 8260C SIM, GC/MS Volatiles**Sample #s: 9737848, 9737849, 9737850**

Reporting limits were raised due to interference from the sample matrix.

SW-846 8270D, GC/MS Semivolatiles

Sample #s: 9737848, 9737849, 9737850, 9737851, 9737852, 9737853

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

Batch #: 18218WAU026 (Sample number(s): 9737848-9737853)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window:
4-Aminobiphenyl, 1-Naphthylamine, 2-Naphthylamine, o-Toluidine, 4-Chloroaniline, 3-Nitroaniline,
2,4-Dimethylphenol, Dimethylphthalate, Benzidine, Benzo(g,h,i)perylene, 4-Nitroaniline

The relative percent difference(s) for the following analyte(s) in the LCS/LCSD were outside acceptance windows: 1-Naphthylamine, Benzidine

RSKSOP-175 modified, GC Miscellaneous

Sample #: 9737851

The container used for this analysis was submitted with headspace.

Sample Description: SPBGW2H18-G05-M08B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737848
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 08:56

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Volatiles	SW-846 8260C	ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	120 U	120	400	20
11997	Benzene	71-43-2	180	10	20	20
11997	Bromodichloromethane	75-27-4	10 U	10	20	20
11997	Bromoform	75-25-2	10 U	10	80	20
11997	Bromomethane	74-83-9	10 U	10	20	20
11997	2-Butanone	78-93-3	60 U	60	200	20
11997	Carbon Disulfide	75-15-0	20 U	20	100	20
11997	Carbon Tetrachloride	56-23-5	10 U	10	20	20
11997	Chlorobenzene	108-90-7	11,000	100	200	200
11997	Chloroethane	75-00-3	10 U	10	20	20
11997	Chloroform	67-66-3	10 U	10	20	20
11997	Chloromethane	74-87-3	10 U	10	20	20
11997	Cyclohexane	110-82-7	40 U	40	100	20
11997	1,2-Dibromo-3-chloropropane	96-12-8	40 U	40	100	20
11997	Dibromochloromethane	124-48-1	10 U	10	20	20
11997	1,2-Dibromoethane	106-93-4	10 U	10	20	20
11997	1,2-Dichlorobenzene	95-50-1	3,700	20	100	20
11997	1,3-Dichlorobenzene	541-73-1	43 J	20	100	20
11997	1,4-Dichlorobenzene	106-46-7	280	20	100	20
11997	Dichlorodifluoromethane	75-71-8	10 U	10	20	20
11997	1,1-Dichloroethane	75-34-3	10 U	10	20	20
11997	1,2-Dichloroethane	107-06-2	10 U	10	20	20
11997	1,1-Dichloroethene	75-35-4	10 U	10	20	20
11997	cis-1,2-Dichloroethene	156-59-2	10 U	10	20	20
11997	trans-1,2-Dichloroethene	156-60-5	10 U	10	20	20
11997	1,2-Dichloropropene	78-87-5	10 U	10	20	20
11997	cis-1,3-Dichloropropene	10061-01-5	10 U	10	20	20
11997	trans-1,3-Dichloropropene	10061-02-6	10 U	10	20	20
11997	Ethylbenzene	100-41-4	18 J	10	20	20
11997	Freon 113	76-13-1	40 U	40	200	20
11997	2-Hexanone	591-78-6	60 U	60	200	20
11997	Isopropylbenzene	98-82-8	20 U	20	100	20
11997	Methyl Acetate	79-20-9	20 U	20	100	20
11997	Methyl Tertiary Butyl Ether	1634-04-4	10 U	10	20	20
11997	4-Methyl-2-pentanone	108-10-1	60 U	60	200	20
11997	Methylcyclohexane	108-87-2	20 U	20	100	20
11997	Methylene Chloride	75-09-2	10 U	10	20	20
11997	Styrene	100-42-5	20 U	20	100	20
11997	1,1,2,2-Tetrachloroethane	79-34-5	10 U	10	20	20
11997	Tetrachloroethene	127-18-4	10 U	10	20	20
11997	Toluene	108-88-3	56	10	20	20
11997	1,2,4-Trichlorobenzene	120-82-1	20 U	20	100	20

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-G05-M08B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737848
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 08:56

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	10 U	10	20	20
11997	1,1,2-Trichloroethane	79-00-5	10 U	10	20	20
11997	Trichloroethene	79-01-6	10 U	10	20	20
11997	Trichlorofluoromethane	75-69-4	10 U	10	20	20
11997	Vinyl Chloride	75-01-4	10 U	10	20	20
11997	m+p-Xylene	179601-23-1	72	10	20	20
11997	o-Xylene	95-47-6	21	10	20	20
11997	Xylene (Total)	1330-20-7	93	10	20	20

The project QA/QC requirements were not met.

The percent drift for the following is >20% in the continuing calibration verification standard associated with this sample: 1,1,2,2-Tetrachloroethane

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained for 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

GC/MS Volatiles	SW-846 8260C SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	10 U	10	20

Reporting limits were raised due to interference from the sample matrix.

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	Acenaphthene	83-32-9	1	0.1	0.5
14241	Acenaphthylene	208-96-8	0.1 U	0.1	1
14241	Acetophenone	98-86-2	4 U	4	10
14241	4-Aminobiphenyl	92-67-1	20	5	11
14241	Aniline	62-53-3	4,900	150	500
14241	Anthracene	120-12-7	0.1 U	0.1	0.5
14241	Atrazine	1912-24-9	2 U	2	5
14241	Benzaldehyde	100-52-7	3 U	3	10
14241	Benzidine	92-87-5	83	20	60
14241	Benzo(a)anthracene	56-55-3	0.2 J	0.1	0.5
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5
14241	1,1'-Biphenyl	92-52-4	3 U	3	10
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-G05-M08B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737848
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 08:56

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	SW-846 8270D		ug/l	ug/l	ug/l	
14241	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241	Caprolactam	105-60-2	5 U	5	11	1
14241	Carbazole	86-74-8	8	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241	4-Chloroaniline	106-47-8	12	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1
14241	2-Chlorophenol	95-57-8	16	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5 U	0.5	2	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	Dibenzofuran	132-64-9	0.5 U	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5 U	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	21	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	Diphenyl ether	101-84-8	8	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14241	Fluorene	86-73-7	0.1 U	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	0.1 U	0.1	0.5	1
14241	2-Methylphenol	95-48-7	3	0.5	2	1
14241	4-Methylphenol	106-44-5	0.5 U	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-G05-M08B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737848
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15
Collection Date/Time: 08/03/2018 08:56

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
14241	Naphthalene	91-20-3	24	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	490	40	110	5
14241	2-Naphthylamine	91-59-8	170	35	110	5
14241	2-Nitroaniline	88-74-4	2 U	2	7	1
14241	3-Nitroaniline	99-09-2	3 U	3	7	1
14241	4-Nitroaniline	100-01-6	0.9 U	0.9	3	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	10	1
14241	4-Nitrophenol	100-02-7	10 U	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	840	35	150	50
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.1 U	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	2,100	200	500	50
14241	2,4,5-Trichlorophenol	95-95-4	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

11659 Targeted Library Search (SVOC)

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined at the end of the report.

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
10602	Ethane	74-84-0	5.8	1.0	5.0
10602	Ethene	74-85-1	2.9 J	1.0	5.0
10602	Methane	74-82-8	3,000	60	100

Sample Comments

State of New Jersey Lab Certification No. PA011

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-G05-M08B Groundwater
SC SPB WELL SAMPLING 2H18**The Chemours Company FC, LLC**
ELLE Sample #: WW 9737848
ELLE Group #: 1973093
Matrix: Groundwater**Project Name:** CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 08:56

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	5182271AA	08/15/2018 19:38	Corie Mellinger	20
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	5182271AA	08/15/2018 20:00	Corie Mellinger	200
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182201AA	08/08/2018 23:40	Kevin A Sposito	50
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182201AA	08/08/2018 23:40	Kevin A Sposito	50
01163	GC/MS VOA Water Prep	SW-846 5030C	2	5182271AA	08/15/2018 19:38	Corie Mellinger	20
01163	GC/MS VOA Water Prep	SW-846 5030C	3	5182271AA	08/15/2018 20:00	Corie Mellinger	200
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18218WAU026	08/08/2018 04:57	Ashley R Transue	1
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18218WAU026	08/08/2018 19:19	Edward C Monborne	50
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18218WAU026	08/11/2018 02:41	Ashley R Transue	5
11010	8270D BNA Extraction	SW-846 3510C	1	18218WAU026	08/07/2018 10:00	Logan M Brosemer	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182180099A	08/06/2018 20:41	Johanna C Kennedy	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182180099A	08/07/2018 19:49	Johanna C Kennedy	20

*=This limit was used in the evaluation of the final result

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

! _____ !
!G5M8B !

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 9737848
 Sample wt/vol: 249 (g/mL) mL Lab File ID: dh0621.d
 Level: (low/med) LOW Date Received: 08/03/18
 % Moisture: Decanted: (Y/N) Date Extracted: 08/07/18
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/08/18
 Injection Volume: 0.5 (uL) Dilution Factor: 1
 GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.95-51-2	!o-Chloroaniline	! 7.120	! 240	! J
2.90-41-5	![1,1'-Biphenyl]-2-amine	! 11.323	! 24	! J
3.	!			
4.SVOCTIC	!Total SVOC TICs		260	J
5.	!			
6.	!			
7.	!			
8.	!			
9.	!			
10.	!			
11.	!			
12.	!			
13.	!			
14.	!			
15.	!			
16.	!			
17.	!			
18.	!			
19.	!			
20.	!			
21.	!			
22.	!			
23.	!			
24.	!			
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FORM I SV-1

Sample Description: SPBGW2H18-G05-P03B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737849
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 10:11

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Volatiles	SW-846 8260C	ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	60 U	60	200	10
11997	Benzene	71-43-2	340	5	10	10
11997	Bromodichloromethane	75-27-4	5 U	5	10	10
11997	Bromoform	75-25-2	5 U	5	40	10
11997	Bromomethane	74-83-9	5 U	5	10	10
11997	2-Butanone	78-93-3	30 U	30	100	10
11997	Carbon Disulfide	75-15-0	10 U	10	50	10
11997	Carbon Tetrachloride	56-23-5	5 U	5	10	10
11997	Chlorobenzene	108-90-7	6,400	50	100	100
11997	Chloroethane	75-00-3	5 U	5	10	10
11997	Chloroform	67-66-3	5 U	5	10	10
11997	Chloromethane	74-87-3	5 U	5	10	10
11997	Cyclohexane	110-82-7	20 U	20	50	10
11997	1,2-Dibromo-3-chloropropane	96-12-8	20 U	20	50	10
11997	Dibromochloromethane	124-48-1	5 U	5	10	10
11997	1,2-Dibromoethane	106-93-4	5 U	5	10	10
11997	1,2-Dichlorobenzene	95-50-1	230	10	50	10
11997	1,3-Dichlorobenzene	541-73-1	140	10	50	10
11997	1,4-Dichlorobenzene	106-46-7	690	10	50	10
11997	Dichlorodifluoromethane	75-71-8	5 U	5	10	10
11997	1,1-Dichloroethane	75-34-3	5 U	5	10	10
11997	1,2-Dichloroethane	107-06-2	5 U	5	10	10
11997	1,1-Dichloroethene	75-35-4	5 U	5	10	10
11997	cis-1,2-Dichloroethene	156-59-2	5 U	5	10	10
11997	trans-1,2-Dichloroethene	156-60-5	5 U	5	10	10
11997	1,2-Dichloropropene	78-87-5	5 U	5	10	10
11997	cis-1,3-Dichloropropene	10061-01-5	5 U	5	10	10
11997	trans-1,3-Dichloropropene	10061-02-6	5 U	5	10	10
11997	Ethylbenzene	100-41-4	5 U	5	10	10
11997	Freon 113	76-13-1	20 U	20	100	10
11997	2-Hexanone	591-78-6	30 U	30	100	10
11997	Isopropylbenzene	98-82-8	10 U	10	50	10
11997	Methyl Acetate	79-20-9	10 U	10	50	10
11997	Methyl Tertiary Butyl Ether	1634-04-4	5 U	5	10	10
11997	4-Methyl-2-pentanone	108-10-1	30 U	30	100	10
11997	Methylcyclohexane	108-87-2	10 U	10	50	10
11997	Methylene Chloride	75-09-2	5 U	5	10	10
11997	Styrene	100-42-5	10 U	10	50	10
11997	1,1,2,2-Tetrachloroethane	79-34-5	5 U	5	10	10
11997	Tetrachloroethene	127-18-4	5 U	5	10	10
11997	Toluene	108-88-3	5 J	5	10	10
11997	1,2,4-Trichlorobenzene	120-82-1	10 U	10	50	10

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-G05-P03B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737849
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 10:11

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	5 U	5	10	10
11997	1,1,2-Trichloroethane	79-00-5	5 U	5	10	10
11997	Trichloroethene	79-01-6	5 U	5	10	10
11997	Trichlorofluoromethane	75-69-4	5 U	5	10	10
11997	Vinyl Chloride	75-01-4	5 U	5	10	10
11997	m+p-Xylene	179601-23-1	5 U	5	10	10
11997	o-Xylene	95-47-6	6 J	5	10	10
11997	Xylene (Total)	1330-20-7	6 J	5	10	10

The project QA/QC requirements were not met.

The percent drift for the following is >20% in the continuing calibration verification standard associated with this sample: 1,1,2,2-Tetrachloroethane

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained for 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

GC/MS Volatiles	SW-846 8260C SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	4.0 U	4.0	8.0

Reporting limits were raised due to interference from the sample matrix.

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	Acenaphthene	83-32-9	2	0.1	0.5
14241	Acenaphthylene	208-96-8	0.1 U	0.1	1
14241	Acetophenone	98-86-2	4 U	4	1
14241	4-Aminobiphenyl	92-67-1	5 U	5	1
14241	Aniline	62-53-3	16	3	1
14241	Anthracene	120-12-7	0.2 J	0.1	1
14241	Atrazine	1912-24-9	2 U	2	1
14241	Benzaldehyde	100-52-7	3 U	3	1
14241	Benzidine	92-87-5	22 U	22	1
14241	Benzo(a)anthracene	56-55-3	0.1 U	0.1	1
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1	1
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	1
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	1
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	1
14241	1,1'-Biphenyl	92-52-4	3 U	3	1
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-G05-P03B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737849
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 10:11

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241	Caprolactam	105-60-2	5 U	5	12	1
14241	Carbazole	86-74-8	5	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241	4-Chloroaniline	106-47-8	10 J	4	11	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1
14241	2-Chlorophenol	95-57-8	9	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5 U	0.5	2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	Dibenzofuran	132-64-9	0.5 U	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	11	1
14241	2,4-Dichlorophenol	120-83-2	0.5 U	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	11	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	9 U	9	23	1
14241	2,4-Dinitrophenol	51-28-5	15 U	15	33	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	Diphenyl ether	101-84-8	8	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	12	1
14241	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14241	Fluorene	86-73-7	0.1 U	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	12	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	12	0.1	0.5	1
14241	2-Methylphenol	95-48-7	0.5 U	0.5	2	1
14241	4-Methylphenol	106-44-5	0.5 U	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-G05-P03B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737849
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15
Collection Date/Time: 08/03/2018 10:11

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
14241	Naphthalene	91-20-3	1	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	9 U	9	23	1
14241	2-Naphthylamine	91-59-8	110	8	23	1
14241	2-Nitroaniline	88-74-4	2 U	2	8	1
14241	3-Nitroaniline	99-09-2	3 U	3	8	1
14241	4-Nitroaniline	100-01-6	1 U	1	3	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	11	1
14241	4-Nitrophenol	100-02-7	11 U	11	33	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.8 U	0.8	3	1
14241	N-Nitrosodiphenylamine	86-30-6	330	4	16	5
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
14241	Di-n-octylphthalate	117-84-0	5 U	5	12	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.1 U	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	42	4	11	1
14241	2,4,5-Trichlorophenol	95-95-4	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

11659 Targeted Library Search (SVOC)

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined at the end of the report.

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
10602	Ethane	74-84-0	4.7 J	1.0	5.0
10602	Ethene	74-85-1	1.0 U	1.0	5.0
10602	Methane	74-82-8	3,500	60	100

Sample Comments

State of New Jersey Lab Certification No. PA011

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-G05-P03B Groundwater
SC SPB WELL SAMPLING 2H18**The Chemours Company FC, LLC**
ELLE Sample #: WW 9737849
ELLE Group #: 1973093
Matrix: Groundwater**Project Name:** CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 10:11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	5182271AA	08/15/2018 20:22	Corie Mellinger	10
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	5182271AA	08/15/2018 20:43	Corie Mellinger	100
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182201AA	08/09/2018 00:00	Kevin A Sposito	20
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182201AA	08/09/2018 00:00	Kevin A Sposito	20
01163	GC/MS VOA Water Prep	SW-846 5030C	2	5182271AA	08/15/2018 20:22	Corie Mellinger	10
01163	GC/MS VOA Water Prep	SW-846 5030C	3	5182271AA	08/15/2018 20:43	Corie Mellinger	100
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18218WAU026	08/08/2018 05:25	Ashley R Transue	1
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18218WAU026	08/08/2018 20:15	Edward C Monborne	5
11010	8270D BNA Extraction	SW-846 3510C	1	18218WAU026	08/07/2018 10:00	Logan M Brosemer	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182180099A	08/06/2018 21:00	Johanna C Kennedy	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182180099A	08/07/2018 20:08	Johanna C Kennedy	20

*=This limit was used in the evaluation of the final result

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

! _____ !
!G5P3B !

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 9737849
Sample wt/vol: 228 (g/mL) mL Lab File ID: dh0622.d
Level: (low/med) LOW Date Received: 08/03/18
% Moisture: Decanted: (Y/N) Date Extracted: 08/07/18
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/08/18
Injection Volume: 0.5 (uL) Dilution Factor: 1
GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.95-51-2	!o-Chloroaniline	! 7.108	! 170	! J
2.90-41-5	![1,1'-Biphenyl]-2-amine	! 11.363	! 53	! J
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4.SVOCTIC	!Total SVOC TICs		220	J
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Sample Description: SPBGW2H18-H05-M01B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737850
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 12:17

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Volatiles	SW-846 8260C	ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	30 U	30	100	5
11997	Benzene	71-43-2	22	3	5	5
11997	Bromodichloromethane	75-27-4	3 U	3	5	5
11997	Bromoform	75-25-2	3 U	3	20	5
11997	Bromomethane	74-83-9	3 U	3	5	5
11997	2-Butanone	78-93-3	15 U	15	50	5
11997	Carbon Disulfide	75-15-0	5 U	5	25	5
11997	Carbon Tetrachloride	56-23-5	3 U	3	5	5
11997	Chlorobenzene	108-90-7	1,900	25	50	50
11997	Chloroethane	75-00-3	3 U	3	5	5
11997	Chloroform	67-66-3	3 U	3	5	5
11997	Chloromethane	74-87-3	3 U	3	5	5
11997	Cyclohexane	110-82-7	10 U	10	25	5
11997	1,2-Dibromo-3-chloropropane	96-12-8	10 U	10	25	5
11997	Dibromochloromethane	124-48-1	3 U	3	5	5
11997	1,2-Dibromoethane	106-93-4	3 U	3	5	5
11997	1,2-Dichlorobenzene	95-50-1	7 J	5	25	5
11997	1,3-Dichlorobenzene	541-73-1	6 J	5	25	5
11997	1,4-Dichlorobenzene	106-46-7	26	5	25	5
11997	Dichlorodifluoromethane	75-71-8	3 U	3	5	5
11997	1,1-Dichloroethane	75-34-3	3 U	3	5	5
11997	1,2-Dichloroethane	107-06-2	3 U	3	5	5
11997	1,1-Dichloroethene	75-35-4	3 U	3	5	5
11997	cis-1,2-Dichloroethene	156-59-2	3 U	3	5	5
11997	trans-1,2-Dichloroethene	156-60-5	3 U	3	5	5
11997	1,2-Dichloropropene	78-87-5	3 U	3	5	5
11997	cis-1,3-Dichloropropene	10061-01-5	3 U	3	5	5
11997	trans-1,3-Dichloropropene	10061-02-6	3 U	3	5	5
11997	Ethylbenzene	100-41-4	3 U	3	5	5
11997	Freon 113	76-13-1	10 U	10	50	5
11997	2-Hexanone	591-78-6	15 U	15	50	5
11997	Isopropylbenzene	98-82-8	5 U	5	25	5
11997	Methyl Acetate	79-20-9	5 U	5	25	5
11997	Methyl Tertiary Butyl Ether	1634-04-4	3 U	3	5	5
11997	4-Methyl-2-pentanone	108-10-1	15 U	15	50	5
11997	Methylcyclohexane	108-87-2	5 U	5	25	5
11997	Methylene Chloride	75-09-2	3 U	3	5	5
11997	Styrene	100-42-5	5 U	5	25	5
11997	1,1,2,2-Tetrachloroethane	79-34-5	3 U	3	5	5
11997	Tetrachloroethene	127-18-4	3 U	3	5	5
11997	Toluene	108-88-3	3 U	3	5	5
11997	1,2,4-Trichlorobenzene	120-82-1	5 U	5	25	5

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H05-M01B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737850
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 12:17

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	3 U	3	5	5
11997	1,1,2-Trichloroethane	79-00-5	3 U	3	5	5
11997	Trichloroethene	79-01-6	3 U	3	5	5
11997	Trichlorofluoromethane	75-69-4	3 U	3	5	5
11997	Vinyl Chloride	75-01-4	3 U	3	5	5
11997	m+p-Xylene	179601-23-1	3 U	3	5	5
11997	o-Xylene	95-47-6	3 U	3	5	5
11997	Xylene (Total)	1330-20-7	3 U	3	5	5

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

GC/MS Volatiles	SW-846 8260C SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	1.0 U	1.0	2.0

Reporting limits were raised due to interference from the sample matrix.

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	Acenaphthene	83-32-9	0.5	0.1	0.5
14241	Acenaphthylene	208-96-8	0.1 U	0.1	0.5
14241	Acetophenone	98-86-2	4 U	4	10
14241	4-Aminobiphenyl	92-67-1	5 U	5	11
14241	Aniline	62-53-3	3 U	3	10
14241	Anthracene	120-12-7	0.1 U	0.1	0.5
14241	Atrazine	1912-24-9	2 U	2	5
14241	Benzaldehyde	100-52-7	3 U	3	10
14241	Benzidine	92-87-5	20 U	20	60
14241	Benzo(a)anthracene	56-55-3	0.1 U	0.1	0.5
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5
14241	1,1'-Biphenyl	92-52-4	3 U	3	10
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2
14241	Butylbenzylphthalate	85-68-7	2 U	2	5
14241	Di-n-butylphthalate	84-74-2	2 U	2	5
14241	Caprolactam	105-60-2	5 U	5	11
14241	Carbazole	86-74-8	0.5 U	0.5	2
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2
14241	4-Chloroaniline	106-47-8	4 U	4	10
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H05-M01B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737850
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 12:17

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1
14241	2-Chlorophenol	95-57-8	7	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5 U	0.5	2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	Dibenzofuran	132-64-9	0.5 U	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5 U	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	21	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	Diphenyl ether	101-84-8	0.5 U	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14241	Fluorene	86-73-7	0.1 U	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	0.1 U	0.1	0.5	1
14241	2-Methylphenol	95-48-7	0.5 U	0.5	2	1
14241	4-Methylphenol	106-44-5	0.5 U	0.5	2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
14241	Naphthalene	91-20-3	0.8	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	90	8	21	1
14241	2-Naphthylamine	91-59-8	16 J	7	21	1
14241	2-Nitroaniline	88-74-4	2 U	2	7	1
14241	3-Nitroaniline	99-09-2	3 U	3	7	1
14241	4-Nitroaniline	100-01-6	0.9 U	0.9	3	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H05-M01B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737850
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 12:17

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	2-Nitrophenol	88-75-5	3 U	3	10	1
14241	4-Nitrophenol	100-02-7	10 U	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	18	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.1 U	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	4 U	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

11659 Targeted Library Search (SVOC)

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined at the end of the report.

CAT No.	Analysis Name	Method	ug/l	ug/l	ug/l
10602	Ethane	74-84-0	1.4 J	1.0	5.0
10602	Ethene	74-85-1	1.0 U	1.0	5.0
10602	Methane	74-82-8	3,400	60	100

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182272AA	08/16/2018 01:40	Kevin D Kelly	5
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182272AA	08/16/2018 02:04	Kevin D Kelly	50
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182201AA	08/09/2018 00:20	Kevin A Sposito	5
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182201AA	08/09/2018 00:20	Kevin A Sposito	5
01163	GC/MS VOA Water Prep	SW-846 5030C	2	W182272AA	08/16/2018 01:40	Kevin D Kelly	5
01163	GC/MS VOA Water Prep	SW-846 5030C	3	W182272AA	08/16/2018 02:04	Kevin D Kelly	50

*=This limit was used in the evaluation of the final result

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Sample Description: SPBGW2H18-H05-M01B Groundwater
SC SPB WELL SAMPLING 2H18**The Chemours Company FC, LLC**
ELLE Sample #: WW 9737850
ELLE Group #: 1973093
Matrix: Groundwater**Project Name:** CWK - SC SPB WELL SAMPLINGSubmittal Date/Time: 08/03/2018 17:15
Collection Date/Time: 08/03/2018 12:17**Laboratory Sample Analysis Record**

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18218WAU026	08/08/2018 05:53	Ashley R Transue	1
11010	8270D BNA Extraction	SW-846 3510C	1	18218WAU026	08/07/2018 10:00	Logan M Brosemer	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182180099A	08/06/2018 21:18	Johanna C Kennedy	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182180099A	08/07/2018 20:27	Johanna C Kennedy	20

*=This limit was used in the evaluation of the final result

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

! _____ !
! H5M1B !

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 9737850
Sample wt/vol: 248 (g/mL) mL Lab File ID: dh0623.d
Level: (low/med) LOW Date Received: 08/03/18
% Moisture: Decanted: (Y/N) Date Extracted: 08/07/18
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/08/18
Injection Volume: 0.5 (uL) Dilution Factor: 1
GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:

Number TICs found: 3 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.95-51-2	!o-Chloroaniline	! 7.103	! 25	! J
2.90-41-5	![1,1'-Biphenyl]-2-amine	! 11.363	! 10	! J
3.				
4.				
5.SVOCTIC	!Total SVOC TICs		39	J
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page 1 of 1

FORM I SV-1

Sample Description: SPBGW2H18-H05-M03B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737851
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 11:26

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Volatiles	SW-846 8260C	ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	6 U	6	20	1
11997	Benzene	71-43-2	2	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	2-Butanone	78-93-3	3 U	3	10	1
11997	Carbon Disulfide	75-15-0	1 U	1	5	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	290	0.5	1	1
11997	Chloroethane	75-00-3	0.5 U	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Cyclohexane	110-82-7	2 U	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	2 U	2	5	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	0.5 U	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	7	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	1 U	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	3 J	1	5	1
11997	Dichlorodifluoromethane	75-71-8	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.5 U	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	0.5 U	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	0.5 U	0.5	1	1
11997	1,2-Dichloropropene	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	0.5 U	0.5	1	1
11997	Freon 113	76-13-1	2 U	2	10	1
11997	2-Hexanone	591-78-6	3 U	3	10	1
11997	Isopropylbenzene	98-82-8	1 U	1	5	1
11997	Methyl Acetate	79-20-9	1 U	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	0.5 U	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	3 U	3	10	1
11997	Methylcyclohexane	108-87-2	1 U	1	5	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	Styrene	100-42-5	1 U	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	0.5 U	0.5	1	1
11997	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H05-M03B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737851
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 11:26

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	0.5 U	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	0.5 U	0.5	1	1
11997	m+p-Xylene	179601-23-1	0.5 U	0.5	1	1
11997	o-Xylene	95-47-6	0.5 U	0.5	1	1
11997	Xylene (Total)	1330-20-7	0.5 U	0.5	1	1

The project QA/QC requirements were not met.

The percent drift for the following is >20% in the continuing calibration verification standard associated with this sample: 1,1,2,2-Tetrachloroethane

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained for 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

GC/MS Volatiles	SW-846 8260C SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.2 U	0.2	0.4

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	Acenaphthene	83-32-9	0.1 U	0.1	0.5
14241	Acenaphthylene	208-96-8	0.1 U	0.1	0.5
14241	Acetophenone	98-86-2	4 U	4	10
14241	4-Aminobiphenyl	92-67-1	5 U	5	11
14241	Aniline	62-53-3	3 U	3	10
14241	Anthracene	120-12-7	0.1 U	0.1	0.5
14241	Atrazine	1912-24-9	2 U	2	5
14241	Benzaldehyde	100-52-7	3 U	3	10
14241	Benzidine	92-87-5	20 U	20	61
14241	Benzo(a)anthracene	56-55-3	0.1 U	0.1	0.5
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5
14241	1,1'-Biphenyl	92-52-4	3 U	3	10
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H05-M03B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737851
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 11:26

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241	Caprolactam	105-60-2	5 U	5	11	1
14241	Carbazole	86-74-8	0.5 U	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241	4-Chloroaniline	106-47-8	4 U	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1
14241	2-Chlorophenol	95-57-8	0.7 J	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5 U	0.5	2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	Dibenzofuran	132-64-9	0.5 U	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5 U	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	21	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	Diphenyl ether	101-84-8	0.5 U	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14241	Fluorene	86-73-7	0.1 U	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	0.1 U	0.1	0.5	1
14241	2-Methylphenol	95-48-7	0.5 U	0.5	2	1
14241	4-Methylphenol	106-44-5	0.5 U	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H05-M03B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737851
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 11:26

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
14241	Naphthalene	91-20-3	0.3 J	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	12 J	8	21	1
14241	2-Naphthylamine	91-59-8	7 U	7	21	1
14241	2-Nitroaniline	88-74-4	2 U	2	7	1
14241	3-Nitroaniline	99-09-2	3 U	3	7	1
14241	4-Nitroaniline	100-01-6	0.9 U	0.9	3	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	10	1
14241	4-Nitrophenol	100-02-7	10 U	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	0.8 J	0.7	3	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.1 U	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	4 U	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

11659 Targeted Library Search (SVOC)

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined at the end of the report.

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l
10602	Ethane	74-84-0	1.0 U	1.0
10602	Ethene	74-85-1	2.6 J	1.0
10602	Methane	74-82-8	14,000	300

The container used for this analysis was submitted with headspace.

Sample Comments

State of New Jersey Lab Certification No. PA011

*=This limit was used in the evaluation of the final result

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Sample Description: SPBGW2H18-H05-M03B Groundwater
SC SPB WELL SAMPLING 2H18**The Chemours Company FC, LLC**
ELLE Sample #: WW 9737851
ELLE Group #: 1973093
Matrix: Groundwater**Project Name:** CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 11:26

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	5182271AA	08/15/2018 16:01	Corie Mellinger	1
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182231AA	08/11/2018 13:24	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182231AA	08/11/2018 13:24	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	2	5182271AA	08/15/2018 16:01	Corie Mellinger	1
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18218WAU026	08/08/2018 06:21	Ashley R Transue	1
11010	8270D BNA Extraction	SW-846 3510C	1	18218WAU026	08/07/2018 10:00	Logan M Brosemer	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182180099A	08/06/2018 21:36	Johanna C Kennedy	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182180099A	08/07/2018 20:46	Johanna C Kennedy	100

*=This limit was used in the evaluation of the final result

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

! _____ !
! H5M3B !

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 9737851
 Sample wt/vol: 247 (g/mL) mL Lab File ID: dh0624.d
 Level: (low/med) LOW Date Received: 08/03/18
 % Moisture: Decanted: (Y/N) Date Extracted: 08/07/18
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/08/18
 Injection Volume: 0.5 (uL) Dilution Factor: 1
 GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.95-51-2	o-Chloroaniline	7.103	5	J
2.90-41-5	[1,1'-Biphenyl]-2-amine	11.363	1	J
3.				
4.SVOCTIC	Total SVOC TICs		6	J
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page 1 of 1

FORM I SV-1

Sample Description: SPBGW2H18-H05-M04B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737852
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 13:13

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Volatiles	SW-846 8260C	ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	6 U	6	20	1
11997	Benzene	71-43-2	1	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	2-Butanone	78-93-3	3 U	3	10	1
11997	Carbon Disulfide	75-15-0	1 U	1	5	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	270	0.5	1	1
11997	Chloroethane	75-00-3	0.5 U	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Cyclohexane	110-82-7	2 U	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	2 U	2	5	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	0.5 U	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	2 J	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	1 U	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	4 J	1	5	1
11997	Dichlorodifluoromethane	75-71-8	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.8 J	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	0.5 U	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	0.5 U	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	0.5 U	0.5	1	1
11997	Freon 113	76-13-1	2 U	2	10	1
11997	2-Hexanone	591-78-6	3 U	3	10	1
11997	Isopropylbenzene	98-82-8	1 U	1	5	1
11997	Methyl Acetate	79-20-9	1 U	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	1	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	3 U	3	10	1
11997	Methylcyclohexane	108-87-2	1 U	1	5	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	Styrene	100-42-5	1 U	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	0.5 U	0.5	1	1
11997	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H05-M04B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737852
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15
Collection Date/Time: 08/03/2018 13:13

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Volatiles	SW-846 8260C	ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	0.5 U	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	0.5 U	0.5	1	1
11997	m+p-Xylene	179601-23-1	0.5 U	0.5	1	1
11997	o-Xylene	95-47-6	0.5 U	0.5	1	1
11997	Xylene (Total)	1330-20-7	0.5 U	0.5	1	1

The project QA/QC requirements were not met.

The percent drift for the following is >20% in the continuing calibration verification standard associated with this sample: 1,1,2,2-Tetrachloroethane

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained for 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

GC/MS Volatiles	SW-846 8260C SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.2 U	0.2	0.4

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	Acenaphthene	83-32-9	3	0.1	0.5
14241	Acenaphthylene	208-96-8	0.1 U	0.1	0.5
14241	Acetophenone	98-86-2	4 U	4	10
14241	4-Aminobiphenyl	92-67-1	5 U	5	11
14241	Aniline	62-53-3	3 U	3	10
14241	Anthracene	120-12-7	0.1 J	0.1	0.5
14241	Atrazine	1912-24-9	2 U	2	5
14241	Benzaldehyde	100-52-7	3 U	3	10
14241	Benzidine	92-87-5	20 U	20	60
14241	Benzo(a)anthracene	56-55-3	0.1 U	0.1	0.5
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5
14241	1,1'-Biphenyl	92-52-4	3 U	3	10
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H05-M04B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737852
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 13:13

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	SW-846 8270D		ug/l	ug/l	ug/l	
14241	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241	Caprolactam	105-60-2	5 U	5	11	1
14241	Carbazole	86-74-8	0.5 U	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241	4-Chloroaniline	106-47-8	4 U	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1
14241	2-Chlorophenol	95-57-8	0.7 J	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5 U	0.5	2	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	Dibenzofuran	132-64-9	0.5 U	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5 U	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	21	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	Diphenyl ether	101-84-8	1 J	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14241	Fluorene	86-73-7	0.1 U	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	0.1 U	0.1	0.5	1
14241	2-Methylphenol	95-48-7	0.5 U	0.5	2	1
14241	4-Methylphenol	106-44-5	0.5 U	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-H05-M04B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737852
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 13:13

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
14241	Naphthalene	91-20-3	0.2 J	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	21 J	8	21	1
14241	2-Naphthylamine	91-59-8	7 J	7	21	1
14241	2-Nitroaniline	88-74-4	2 U	2	7	1
14241	3-Nitroaniline	99-09-2	3 U	3	7	1
14241	4-Nitroaniline	100-01-6	0.9 U	0.9	3	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	10	1
14241	4-Nitrophenol	100-02-7	10 U	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	2 J	0.7	3	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.1 U	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	4 U	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

11659 Targeted Library Search (SVOC)

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined at the end of the report.

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
10602	Ethane	74-84-0	3.3 J	1.0	5.0
10602	Ethene	74-85-1	2.3 J	1.0	5.0
10602	Methane	74-82-8	9,300	150	250

Sample Comments

State of New Jersey Lab Certification No. PA011

*=This limit was used in the evaluation of the final result

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Sample Description: SPBGW2H18-H05-M04B Groundwater
SC SPB WELL SAMPLING 2H18**The Chemours Company FC, LLC**
ELLE Sample #: WW 9737852
ELLE Group #: 1973093
Matrix: Groundwater**Project Name:** CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 13:13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	5182271AA	08/15/2018 16:22	Corie Mellinger	1
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182231AA	08/11/2018 13:44	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182231AA	08/11/2018 13:44	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	2	5182271AA	08/15/2018 16:22	Corie Mellinger	1
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18218WAU026	08/08/2018 17:27	Edward C Monborne	1
11010	8270D BNA Extraction	SW-846 3510C	1	18218WAU026	08/07/2018 10:00	Logan M Brosemer	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182180099A	08/06/2018 21:55	Johanna C Kennedy	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182180099A	08/07/2018 21:04	Johanna C Kennedy	50

*=This limit was used in the evaluation of the final result

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

! _____ !
! H5M4B !

Lab Name: Lancaster Laboratories Contract: _____
Lab Code: LANCAS Case No.: _____ SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 9737852
Sample wt/vol: 248 (g/mL) mL Lab File ID: dh0665.d
Level: (low/med) LOW Date Received: 08/03/18
% Moisture: Decanted: (Y/N) Date Extracted: 08/07/18
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/08/18
Injection Volume: 0.5 (uL) Dilution Factor: 1
GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.95-51-2	o-Chloroaniline	7.813	1.9	J
2.90-41-5	[1,1'-Biphenyl]-2-amine	11.573	1.2	J
3.				
4.SVOCTIC	Total SVOC TICs		220	J
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FORM I SV-1

Sample Description: SPBGW2H18-EB-19 Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737853
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Volatiles	SW-846 8260C	ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	6 U	6	20	1
11997	Benzene	71-43-2	0.5 U	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	2-Butanone	78-93-3	3 U	3	10	1
11997	Carbon Disulfide	75-15-0	1 U	1	5	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	0.5 U	0.5	1	1
11997	Chloroethane	75-00-3	0.5 U	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Cyclohexane	110-82-7	2 U	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	2 U	2	5	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	0.5 U	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	1 U	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	1 U	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	1 U	1	5	1
11997	Dichlorodifluoromethane	75-71-8	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.5 U	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	0.5 U	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	0.5 U	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	0.5 U	0.5	1	1
11997	Freon 113	76-13-1	2 U	2	10	1
11997	2-Hexanone	591-78-6	3 U	3	10	1
11997	Isopropylbenzene	98-82-8	1 U	1	5	1
11997	Methyl Acetate	79-20-9	1 U	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	0.5 U	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	3 U	3	10	1
11997	Methylcyclohexane	108-87-2	1 U	1	5	1
11997	Methylene Chloride	75-09-2	2	0.5	1	1
11997	Styrene	100-42-5	1 U	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	0.5 U	0.5	1	1
11997	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-EB-19 Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737853
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15
Collection Date/Time: 08/03/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	0.5 U	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	0.5 U	0.5	1	1
11997	m+p-Xylene	179601-23-1	0.5 U	0.5	1	1
11997	o-Xylene	95-47-6	0.5 U	0.5	1	1
11997	Xylene (Total)	1330-20-7	0.5 U	0.5	1	1

The project QA/QC requirements were not met.

The percent drift for the following is >20% in the continuing calibration verification standard associated with this sample: 1,1,2,2-Tetrachloroethane

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained for 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

GC/MS Volatiles	SW-846 8260C SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.2 U	0.2	0.4

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	Acenaphthene	83-32-9	0.1 U	0.1	0.5
14241	Acenaphthylene	208-96-8	0.1 U	0.1	0.5
14241	Acetophenone	98-86-2	4 U	4	10
14241	4-Aminobiphenyl	92-67-1	5 U	5	11
14241	Aniline	62-53-3	3 U	3	10
14241	Anthracene	120-12-7	0.1 U	0.1	0.5
14241	Atrazine	1912-24-9	2 U	2	5
14241	Benzaldehyde	100-52-7	3 U	3	10
14241	Benzidine	92-87-5	20 U	20	60
14241	Benzo(a)anthracene	56-55-3	0.1 U	0.1	0.5
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5
14241	1,1'-Biphenyl	92-52-4	3 U	3	10
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-EB-19 Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737853
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	SW-846 8270D		ug/l	ug/l	ug/l	
14241	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241	Caprolactam	105-60-2	5 U	5	11	1
14241	Carbazole	86-74-8	0.5 U	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241	4-Chloroaniline	106-47-8	4 U	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1
14241	2-Chlorophenol	95-57-8	0.5 U	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5 U	0.5	2	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	Dibenzofuran	132-64-9	0.5 U	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5 U	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	21	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	Diphenyl ether	101-84-8	0.5 U	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14241	Fluorene	86-73-7	0.1 U	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	0.1 U	0.1	0.5	1
14241	2-Methylphenol	95-48-7	0.5 U	0.5	2	1
14241	4-Methylphenol	106-44-5	0.5 U	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-EB-19 Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737853
ELLE Group #: 1973093
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
14241	Naphthalene	91-20-3	0.1 U	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	8 U	8	21	1
14241	2-Naphthylamine	91-59-8	7 U	7	21	1
14241	2-Nitroaniline	88-74-4	2 U	2	7	1
14241	3-Nitroaniline	99-09-2	3 U	3	7	1
14241	4-Nitroaniline	100-01-6	0.9 U	0.9	3	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	10	1
14241	4-Nitrophenol	100-02-7	10 U	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	0.7 U	0.7	3	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.1 U	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	4 U	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

11659 Targeted Library Search (SVOC)

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined at the end of the report.

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l
10602	Ethane	74-84-0	1.0 U	1.0
10602	Ethene	74-85-1	1.0 U	1.0
10602	Methane	74-82-8	3.0 U	3.0

Sample Comments

State of New Jersey Lab Certification No. PA011

*=This limit was used in the evaluation of the final result

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description: SPBGW2H18-EB-19 Groundwater
SC SPB WELL SAMPLING 2H18**The Chemours Company FC, LLC**
ELLE Sample #: WW 9737853
ELLE Group #: 1973093
Matrix: Groundwater**Project Name:** CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 08:00

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	5182271AA	08/15/2018 14:34	Corie Mellinger	1
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182231AA	08/11/2018 12:43	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182231AA	08/11/2018 12:43	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	2	5182271AA	08/15/2018 14:34	Corie Mellinger	1
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18218WAU026	08/08/2018 17:55	Edward C Monborne	1
11010	8270D BNA Extraction	SW-846 3510C	1	18218WAU026	08/07/2018 10:00	Logan M Brosemer	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182180099A	08/06/2018 22:14	Johanna C Kennedy	1

*=This limit was used in the evaluation of the final result

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

! _____ !
! H5E19 !

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 9737853
 Sample wt/vol: 248 (g/mL) mL Lab File ID: dh0666.d
 Level: (low/med) LOW Date Received: 08/03/18
 % Moisture: Decanted: (Y/N) Date Extracted: 08/07/18
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/08/18
 Injection Volume: 0.5 (uL) Dilution Factor: 1
 GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.95-51-2	o-chloroaniline		0	
2.90-41-5	2-aminobiphenyl		0	
3.				
4.SVOCTIC	Total SVOC TICs			
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page 1 of 1

FORM I SV-1

Sample Description: SPBGW2H18-TB-19 Blank Water
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737854
ELLE Group #: 1973093
Matrix: Blank Water

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	6 U	6	20	1
11997	Benzene	71-43-2	0.5 U	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	2-Butanone	78-93-3	3 U	3	10	1
11997	Carbon Disulfide	75-15-0	1 U	1	5	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	0.5 U	0.5	1	1
11997	Chloroethane	75-00-3	0.5 U	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Cyclohexane	110-82-7	2 U	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	2 U	2	5	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	0.5 U	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	1 U	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	1 U	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	1 U	1	5	1
11997	Dichlorodifluoromethane	75-71-8	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.5 U	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	0.5 U	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	0.5 U	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	0.5 U	0.5	1	1
11997	Freon 113	76-13-1	2 U	2	10	1
11997	2-Hexanone	591-78-6	3 U	3	10	1
11997	Isopropylbenzene	98-82-8	1 U	1	5	1
11997	Methyl Acetate	79-20-9	1 U	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	0.5 U	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	3 U	3	10	1
11997	Methylcyclohexane	108-87-2	1 U	1	5	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	Styrene	100-42-5	1 U	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	0.5 U	0.5	1	1
11997	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-TB-19 Blank Water
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9737854
ELLE Group #: 1973093
Matrix: Blank Water

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/03/2018 17:15

Collection Date/Time: 08/03/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	0.5 U	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	0.5 U	0.5	1	1
11997	m+p-Xylene	179601-23-1	0.5 U	0.5	1	1
11997	o-Xylene	95-47-6	0.5 U	0.5	1	1
11997	Xylene (Total)	1330-20-7	0.5 U	0.5	1	1

The project QA/QC requirements were not met.

The percent drift for the following is >20% in the continuing calibration verification standard associated with this sample: 1,1,2,2-Tetrachloroethane

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained for 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

GC/MS Volatiles	SW-846 8260C SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.2 U	0.2	0.4

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	5182271AA	08/15/2018 14:56	Corie Mellinger	1
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182231AA	08/11/2018 13:03	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182231AA	08/11/2018 13:03	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030C	2	5182271AA	08/15/2018 14:56	Corie Mellinger	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: The Chemours Company FC, LLC

Group Number: 1973093

Reported: 08/23/2018 17:22

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result ug/l	MDL** ug/l	LOQ ug/l
Batch number: 5182271AA			
Acetone	6 U	6	20
Benzene	0.5 U	0.5	1
Bromodichloromethane	0.5 U	0.5	1
Bromoform	0.5 U	0.5	4
Bromomethane	0.5 U	0.5	1
2-Butanone	3 U	3	10
Carbon Disulfide	1 U	1	5
Carbon Tetrachloride	0.5 U	0.5	1
Chlorobenzene	0.5 U	0.5	1
Chloroethane	0.5 U	0.5	1
Chloroform	0.5 U	0.5	1
Chloromethane	0.5 U	0.5	1
Cyclohexane	2 U	2	5
1,2-Dibromo-3-chloropropane	2 U	2	5
Dibromochloromethane	0.5 U	0.5	1
1,2-Dibromoethane	0.5 U	0.5	1
1,2-Dichlorobenzene	1 U	1	5
1,3-Dichlorobenzene	1 U	1	5
1,4-Dichlorobenzene	1 U	1	5
Dichlorodifluoromethane	0.5 U	0.5	1
1,1-Dichloroethane	0.5 U	0.5	1
1,2-Dichloroethane	0.5 U	0.5	1
1,1-Dichloroethene	0.5 U	0.5	1
cis-1,2-Dichloroethene	0.5 U	0.5	1
trans-1,2-Dichloroethene	0.5 U	0.5	1
1,2-Dichloropropane	0.5 U	0.5	1
cis-1,3-Dichloropropene	0.5 U	0.5	1
trans-1,3-Dichloropropene	0.5 U	0.5	1
Ethylbenzene	0.5 U	0.5	1
Freon 113	2 U	2	10
2-Hexanone	3 U	3	10
Isopropylbenzene	1 U	1	5
Methyl Acetate	1 U	1	5
Methyl Tertiary Butyl Ether	0.5 U	0.5	1
4-Methyl-2-pentanone	3 U	3	10
Methylcyclohexane	1 U	1	5
Methylene Chloride	0.5 U	0.5	1
Styrene	1 U	1	5
1,1,2,2-Tetrachloroethane	0.5 U	0.5	1

*- Outside of specification

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Quality Control SummaryClient Name: The Chemours Company FC, LLC
Reported: 08/23/2018 17:22

Group Number: 1973093

Method Blank (continued)

Analysis Name	Result ug/l	MDL** ug/l	LOQ ug/l
Tetrachloroethene	0.5 U	0.5	1
Toluene	0.5 U	0.5	1
1,2,4-Trichlorobenzene	1 U	1	5
1,1,1-Trichloroethane	0.5 U	0.5	1
1,1,2-Trichloroethane	0.5 U	0.5	1
Trichloroethene	0.5 U	0.5	1
Trichlorofluoromethane	0.5 U	0.5	1
Vinyl Chloride	0.5 U	0.5	1
m+p-Xylene	0.5 U	0.5	1
o-Xylene	0.5 U	0.5	1
Xylene (Total)	0.5 U	0.5	1
Batch number: E182201AA	Sample number(s): 9737848-9737850		
1,4-Dioxane	0.2 U	0.2	0.4
Batch number: E182231AA	Sample number(s): 9737851-9737854		
1,4-Dioxane	0.2 U	0.2	0.4
Batch number: W182272AA	Sample number(s): 9737850		
Acetone	6 U	6	20
Benzene	0.5 U	0.5	1
Bromodichloromethane	0.5 U	0.5	1
Bromoform	0.5 U	0.5	4
Bromomethane	0.5 U	0.5	1
2-Butanone	3 U	3	10
Carbon Disulfide	1 U	1	5
Carbon Tetrachloride	0.5 U	0.5	1
Chlorobenzene	0.5 U	0.5	1
Chloroethane	0.5 U	0.5	1
Chloroform	0.5 U	0.5	1
Chloromethane	0.5 U	0.5	1
Cyclohexane	2 U	2	5
1,2-Dibromo-3-chloropropane	2 U	2	5
Dibromochloromethane	0.5 U	0.5	1
1,2-Dibromoethane	0.5 U	0.5	1
1,2-Dichlorobenzene	1 U	1	5
1,3-Dichlorobenzene	1 U	1	5
1,4-Dichlorobenzene	1 U	1	5
Dichlorodifluoromethane	0.5 U	0.5	1
1,1-Dichloroethane	0.5 U	0.5	1
1,2-Dichloroethane	0.5 U	0.5	1
1,1-Dichloroethene	0.5 U	0.5	1
cis-1,2-Dichloroethene	0.5 U	0.5	1
trans-1,2-Dichloroethene	0.5 U	0.5	1
1,2-Dichloropropane	0.5 U	0.5	1
cis-1,3-Dichloropropene	0.5 U	0.5	1

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/23/2018 17:22

Group Number: 1973093

Method Blank (continued)

Analysis Name	Result ug/l	MDL**	LOQ
		ug/l	ug/l
trans-1,3-Dichloropropene	0.5 U	0.5	1
Ethylbenzene	0.5 U	0.5	1
Freon 113	2 U	2	10
2-Hexanone	3 U	3	10
Isopropylbenzene	1 U	1	5
Methyl Acetate	1 U	1	5
Methyl Tertiary Butyl Ether	0.5 U	0.5	1
4-Methyl-2-pentanone	3 U	3	10
Methylcyclohexane	1 U	1	5
Methylene Chloride	0.5 U	0.5	1
Styrene	1 U	1	5
1,1,2,2-Tetrachloroethane	0.5 U	0.5	1
Tetrachloroethene	0.5 U	0.5	1
Toluene	0.5 U	0.5	1
1,2,4-Trichlorobenzene	1 U	1	5
1,1,1-Trichloroethane	0.5 U	0.5	1
1,1,2-Trichloroethane	0.5 U	0.5	1
Trichloroethene	0.5 U	0.5	1
Trichlorofluoromethane	0.5 U	0.5	1
Vinyl Chloride	0.5 U	0.5	1
m+p-Xylene	0.5 U	0.5	1
o-Xylene	0.5 U	0.5	1
Xylene (Total)	0.5 U	0.5	1
Batch number: 18218WAU026	Sample number(s): 9737848-9737853		
Acenaphthene	0.1 U	0.1	0.5
Acenaphthylene	0.1 U	0.1	0.5
Acetophenone	4 U	4	10
4-Aminobiphenyl	5 U	5	11
Aniline	3 U	3	10
Anthracene	0.1 U	0.1	0.5
Atrazine	2 U	2	5
Benzaldehyde	3 U	3	10
Benzidine	20 U	20	60
Benzo(a)anthracene	0.1 U	0.1	0.5
Benzo(a)pyrene	0.1 U	0.1	0.5
Benzo(b)fluoranthene	0.1 U	0.1	0.5
Benzo(g,h,i)perylene	0.1 U	0.1	0.5
Benzo(k)fluoranthene	0.1 U	0.1	0.5
1,1'-Biphenyl	3 U	3	10
4-Bromophenyl-phenylether	0.5 U	0.5	2
Butylbenzylphthalate	2 U	2	5
Di-n-butylphthalate	2 U	2	5
Caprolactam	5 U	5	11
Carbazole	0.5 U	0.5	2

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/23/2018 17:22

Group Number: 1973093

Method Blank (continued)

Analysis Name	Result ug/l	MDL** ug/l	LOQ ug/l
4-Chloro-3-methylphenol	0.5 U	0.5	2
4-Chloroaniline	4 U	4	10
bis(2-Chloroethoxy)methane	0.5 U	0.5	2
bis(2-Chloroethyl)ether	0.5 U	0.5	2
2-Chloronaphthalene	0.4 U	0.4	1
2-Chlorophenol	0.5 U	0.5	2
4-Chlorophenyl-phenylether	0.5 U	0.5	2
2,2'-oxybis(1-Chloropropane)	0.5 U	0.5	2
Chrysene	0.1 U	0.1	0.5
Dibenz(a,h)anthracene	0.1 U	0.1	0.5
Dibenzo furan	0.5 U	0.5	2
3,3'-Dichlorobenzidine	3 U	3	10
2,4-Dichlorophenol	0.5 U	0.5	2
Diethylphthalate	2 U	2	5
2,4-Dimethylphenol	3 U	3	10
Dimethylphthalate	2 U	2	5
4,6-Dinitro-2-methylphenol	8 U	8	21
2,4-Dinitrophenol	14 U	14	30
2,4-Dinitrotoluene	1 U	1	5
2,6-Dinitrotoluene	0.5 U	0.5	2
Diphenyl ether	0.5 U	0.5	2
1,2-Diphenylhydrazine	0.5 U	0.5	2
bis(2-Ethylhexyl)phthalate	5 U	5	11
Fluoranthene	0.1 U	0.1	0.5
Fluorene	0.1 U	0.1	0.5
Hexachlorobenzene	0.1 U	0.1	0.5
Hexachlorobutadiene	0.5 U	0.5	2
Hexachlorocyclopentadiene	5 U	5	11
Hexachloroethane	1 U	1	5
Indeno(1,2,3-cd)pyrene	0.1 U	0.1	0.5
Isophorone	0.5 U	0.5	2
2-Methylnaphthalene	0.1 U	0.1	0.5
2-Methylphenol	0.5 U	0.5	2
4-Methylphenol	0.5 U	0.5	2
Naphthalene	0.1 U	0.1	0.5
1-Naphthylamine	8 U	8	21
2-Naphthylamine	7 U	7	21
2-Nitroaniline	2 U	2	7
3-Nitroaniline	3 U	3	7
4-Nitroaniline	0.9 U	0.9	3
Nitrobenzene	0.5 U	0.5	2
2-Nitrophenol	3 U	3	10
4-Nitrophenol	10 U	10	30
N-Nitroso-di-n-propylamine	0.7 U	0.7	3
N-Nitrosodiphenylamine	0.7 U	0.7	3

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/23/2018 17:22

Group Number: 1973093

Method Blank (continued)

Analysis Name	Result ug/l	MDL** ug/l	LOQ ug/l
Di-n-octylphthalate	5 U	5	11
Pentachlorophenol	1 U	1	5
Phenanthrene	0.1 U	0.1	0.5
Phenol	0.5 U	0.5	2
Pyrene	0.1 U	0.1	0.5
o-Toluidine	4 U	4	10
2,4,5-Trichlorophenol	0.5 U	0.5	2
2,4,6-Trichlorophenol	0.5 U	0.5	2
Batch number: 182180099A	Sample number(s): 9737848-9737853		
Ethane	1.0 U	1.0	5.0
Ethene	1.0 U	1.0	5.0
Methane	3.0 U	3.0	5.0

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 5182271AA	Sample number(s): 9737848-9737849,9737851-9737854								
Acetone	150	151.79	150	147.51	101	98	60-140	3	20
Benzene	20	20.44	20	20.48	102	102	70-130	0	20
Bromodichloromethane	20	21.47	20	21.01	107	105	70-130	2	20
Bromoform	20	17.33	20	17.32	87	87	70-130	0	20
Bromomethane	20	19.83	20	20	99	100	60-140	1	20
2-Butanone	150	151.23	150	151.69	101	101	60-140	0	20
Carbon Disulfide	20	17.1	20	17.53	86	88	60-140	2	20
Carbon Tetrachloride	20	27.57	20	26.98	138*	135*	70-130	2	20
Chlorobenzene	20	19.48	20	19.72	97	99	70-130	1	20
Chloroethane	20	18.53	20	18.47	93	92	60-140	0	20
Chloroform	20	22	20	21.79	110	109	70-130	1	20
Chloromethane	20	16.89	20	17.38	84	87	60-140	3	20
Cyclohexane	20	20.84	20	21.54	104	108	70-130	3	20
1,2-Dibromo-3-chloropropane	20	17.75	20	17.54	89	88	60-140	1	20
Dibromochloromethane	20	19.29	20	19.43	96	97	70-130	1	20
1,2-Dibromoethane	20	19.36	20	19.47	97	97	70-130	1	20
1,2-Dichlorobenzene	20	18.91	20	18.59	95	93	70-130	2	20
1,3-Dichlorobenzene	20	18.89	20	18.57	94	93	70-130	2	20
1,4-Dichlorobenzene	20	19	20	18.56	95	93	70-130	2	20
Dichlorodifluoromethane	20	22.43	20	22.8	112	114	60-140	2	20
1,1-Dichloroethane	20	20.7	20	20.58	103	103	70-130	1	20
1,2-Dichloroethane	20	22.98	20	22.18	115	111	70-130	4	20

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/23/2018 17:22

Group Number: 1973093

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1-Dichloroethene	20	21.54	20	21.94	108	110	70-130	2	20
cis-1,2-Dichloroethene	20	21.87	20	22.36	109	112	70-130	2	20
trans-1,2-Dichloroethene	20	21.99	20	21.96	110	110	70-130	0	20
1,2-Dichloropropane	20	19.99	20	20.04	100	100	70-130	0	20
cis-1,3-Dichloropropene	20	19.63	20	19.94	98	100	70-130	2	20
trans-1,3-Dichloropropene	20	18	20	18.7	90	93	70-130	4	20
Ethylbenzene	20	20.33	20	20.54	102	103	70-130	1	20
Freon 113	20	24.69	20	24.71	123	124	70-130	0	20
2-Hexanone	100	93.77	100	94.42	94	94	60-140	1	20
Isopropylbenzene	20	21.42	20	21.57	107	108	70-130	1	20
Methyl Acetate	20	20.13	20	19.58	101	98	70-130	3	20
Methyl Tertiary Butyl Ether	20	22.75	20	22.99	114	115	70-130	1	20
4-Methyl-2-pentanone	100	100.23	100	100.07	100	100	60-140	0	20
Methylcyclohexane	20	19.98	20	20.35	100	102	70-130	2	20
Methylene Chloride	20	20.68	20	20.86	103	104	70-130	1	20
Styrene	20	19.62	20	19.76	98	99	70-130	1	20
1,1,2,2-Tetrachloroethane	20	16.31	20	15.95	82	80	70-130	2	20
Tetrachloroethene	20	20.81	20	20.8	104	104	70-130	0	20
Toluene	20	19.5	20	19.58	97	98	70-130	0	20
1,2,4-Trichlorobenzene	20	16.39	20	16.6	82	83	70-130	1	20
1,1,1-Trichloroethane	20	24.14	20	23.58	121	118	70-130	2	20
1,1,2-Trichloroethane	20	19.4	20	19.6	97	98	70-130	1	20
Trichloroethene	20	21.08	20	21.18	105	106	70-130	0	20
Trichlorofluoromethane	20	24.37	20	24.1	122	121	60-140	1	20
Vinyl Chloride	20	17.57	20	17.91	88	90	70-130	2	20
m+p-Xylene	40	40.77	40	41.08	102	103	70-130	1	20
o-Xylene	20	19.68	20	20.56	98	103	70-130	4	20
Xylene (Total)	60	60.46	60	61.63	101	103	70-130	2	20
Batch number: E182201AA		Sample number(s): 9737848-9737850							
1,4-Dioxane	5.00	5.05			101		80-130		
Batch number: E182231AA		Sample number(s): 9737851-9737854							
1,4-Dioxane	5.00	5.24			105		80-130		
Batch number: W182272AA		Sample number(s): 9737850							
Acetone	150	120.06			80		60-140		
Benzene	20	19.81			99		70-130		
Bromodichloromethane	20	19.23			96		70-130		
Bromoform	20	16.55			83		70-130		
Bromomethane	20	16.62			83		60-140		
2-Butanone	150	149.31			100		60-140		
Carbon Disulfide	20	15.69			78		60-140		
Carbon Tetrachloride	20	21.3			107		70-130		
Chlorobenzene	20	19.05			95		70-130		

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/23/2018 17:22

Group Number: 1973093

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Chloroethane	20	16.44			82		60-140		
Chloroform	20	19.53			98		70-130		
Chloromethane	20	14.88			74		60-140		
Cyclohexane	20	16.8			84		70-130		
1,2-Dibromo-3-chloropropane	20	19.21			96		60-140		
Dibromochloromethane	20	18.76			94		70-130		
1,2-Dibromoethane	20	18.96			95		70-130		
1,2-Dichlorobenzene	20	18.82			94		70-130		
1,3-Dichlorobenzene	20	18.91			95		70-130		
1,4-Dichlorobenzene	20	18.85			94		70-130		
Dichlorodifluoromethane	20	13.04			65		60-140		
1,1-Dichloroethane	20	19.52			98		70-130		
1,2-Dichloroethane	20	18.72			94		70-130		
1,1-Dichloroethene	20	19.83			99		70-130		
cis-1,2-Dichloroethene	20	19.78			99		70-130		
trans-1,2-Dichloroethene	20	19.32			97		70-130		
1,2-Dichloropropane	20	20.45			102		70-130		
cis-1,3-Dichloropropene	20	19.43			97		70-130		
trans-1,3-Dichloropropene	20	18.8			94		70-130		
Ethylbenzene	20	19.17			96		70-130		
Freon 113	20	14.97			75		70-130		
2-Hexanone	100	95.86			96		60-140		
Isopropylbenzene	20	19.05			95		70-130		
Methyl Acetate	20	20.43			102		70-130		
Methyl Tertiary Butyl Ether	20	16.72			84		70-130		
4-Methyl-2-pentanone	100	100.76			101		60-140		
Methylcyclohexane	20	17.53			88		70-130		
Methylene Chloride	20	20.55			103		70-130		
Styrene	20	18.74			94		70-130		
1,1,2,2-Tetrachloroethane	20	19.61			98		70-130		
Tetrachloroethene	20	19.61			98		70-130		
Toluene	20	19.38			97		70-130		
1,2,4-Trichlorobenzene	20	19.5			98		70-130		
1,1,1-Trichloroethane	20	19.16			96		70-130		
1,1,2-Trichloroethane	20	19.81			99		70-130		
Trichloroethene	20	18.84			94		70-130		
Trichlorofluoromethane	20	16.59			83		60-140		
Vinyl Chloride	20	14.25			71		70-130		
m+p-Xylene	40	38.6			97		70-130		
o-Xylene	20	18.09			90		70-130		
Xylene (Total)	60	56.69			94		70-130		
	ug/l	ug/l	ug/l	ug/l					

Batch number: 18218WAU026

Sample number(s): 9737848-9737853

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/23/2018 17:22

Group Number: 1973093

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acenaphthene	50	42.85	50	45.98	86	92	70-130	7	20
Acenaphthylene	50	40.88	50	43.74	82	87	70-130	7	20
Acetophenone	50	40.1	50	42.9	80	86	70-130	7	20
4-Aminobiphenyl	50	26.77	50	26.08	54*	52*	70-130	3	20
Aniline	50	21.9	50	21.65	44	43	20-160	1	20
Anthracene	50	44.66	50	48.36	89	97	70-130	8	20
Atrazine	50	47.63	50	51.9	95	104	70-130	9	20
Benzaldehyde	50	43.15	50	43.7	86	87	20-160	1	20
Benzidine	250	18.12	250	10.37	7*	4*	20-160	54*	20
Benzo(a)anthracene	50	46.6	50	51.36	93	103	70-130	10	20
Benzo(a)pyrene	50	46.8	50	51.01	94	102	70-130	9	20
Benzo(b)fluoranthene	50	45.31	50	50.18	91	100	70-130	10	20
Benzo(g,h,i)perylene	50	31.89	50	33.12	64*	66*	70-130	4	20
Benzo(k)fluoranthene	50	46.83	50	51.4	94	103	70-130	9	20
1,1'-Biphenyl	50	41.52	50	43.72	83	87	70-130	5	20
4-Bromophenyl-phenylether	50	47.2	50	50.73	94	101	70-130	7	20
Butylbenzylphthalate	50	38.18	50	41.79	76	84	70-130	9	20
Di-n-butylphthalate	50	40.56	50	45.12	81	90	70-130	11	20
Caprolactam	50	13.24	50	16.04	26	32	20-160	19	20
Carbazole	50	43.93	50	48.46	88	97	70-130	10	20
4-Chloro-3-methylphenol	50	42.01	50	45.88	84	92	70-130	9	20
4-Chloroaniline	50	25.69	50	23.25	51*	47*	70-130	10	20
bis(2-Chloroethoxy)methane	50	49.74	50	53.36	99	107	70-130	7	20
bis(2-Chloroethyl)ether	50	38.05	50	41.07	76	82	70-130	8	20
2-Chloronaphthalene	50	52.49	50	54.49	105	109	70-130	4	20
2-Chlorophenol	50	40.36	50	43.93	81	88	20-160	8	20
4-Chlorophenyl-phenylether	50	41.62	50	45.32	83	91	70-130	9	20
2,2'-oxybis(1-Chloropropane)	50	40.26	50	43.52	81	87	70-130	8	20
Chrysene	50	46.64	50	50.72	93	101	70-130	8	20
Dibenz(a,h)anthracene	50	35.35	50	37.25	71	75	70-130	5	20
Dibenzo furan	50	40.35	50	43.62	81	87	70-130	8	20
3,3'-Dichlorobenzidine	50	40.74	50	41.86	81	84	70-130	3	20
2,4-Dichlorophenol	50	43.2	50	46.26	86	93	70-130	7	20
Diethylphthalate	50	35.92	50	37.42	72	75	70-130	4	20
2,4-Dimethylphenol	50	31.43	50	34.08	63*	68*	70-130	8	20
Dimethylphthalate	50	33.8	50	33.38	68*	67*	70-130	1	20
4,6-Dinitro-2-methylphenol	50	42.17	50	46.94	84	94	70-130	11	20
2,4-Dinitrophenol	100	73.14	100	77.52	73	78	20-160	6	20
2,4-Dinitrotoluene	50	40.41	50	43.68	81	87	70-130	8	20
2,6-Dinitrotoluene	50	43.26	50	46.79	87	94	70-130	8	20
Diphenyl ether	50	38.88	50	41.41	78	83	70-130	6	20
1,2-Diphenylhydrazine	50	42.73	50	44.49	85	89	70-130	4	20
bis(2-Ethylhexyl)phthalate	50	41.08	50	45.47	82	91	70-130	10	20
Fluoranthene	50	45.28	50	50.07	91	100	70-130	10	20

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/23/2018 17:22

Group Number: 1973093

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluorene	50	41.51	50	44.9	83	90	70-130	8	20
Hexachlorobenzene	50	47.86	50	53.7	96	107	70-130	11	20
Hexachlorobutadiene	50	37.82	50	40.71	76	81	70-130	7	20
Hexachlorocyclopentadiene	100	42.85	100	47.28	43	47	20-160	10	20
Hexachloroethane	50	35.81	50	37.59	72	75	20-160	5	20
Indeno(1,2,3-cd)pyrene	50	34.84	50	36.3	70	73	70-130	4	20
Isophorone	50	39.87	50	42.88	80	86	70-130	7	20
2-Methylnaphthalene	50	40.02	50	42.73	80	85	70-130	7	20
2-Methylphenol	50	37.87	50	40.63	76	81	70-130	7	20
4-Methylphenol	50	36.45	50	39.14	73	78	20-160	7	20
Naphthalene	50	37.91	50	40.86	76	82	70-130	8	20
1-Naphthylamine	100	32.35	100	25.36	32*	25*	70-130	24*	20
2-Naphthylamine	100	30.58	100	24.99	31*	25*	70-130	20	20
2-Nitroaniline	50	42.32	50	46.63	85	93	70-130	10	20
3-Nitroaniline	50	31.03	50	30.18	62*	60*	70-130	3	20
4-Nitroaniline	50	34.71	50	36.86	69*	74	70-130	6	20
Nitrobenzene	50	38.77	50	41.28	78	83	70-130	6	20
2-Nitrophenol	50	42.45	50	46.49	85	93	70-130	9	20
4-Nitrophenol	50	27.1	50	30.47	54	61	20-160	12	20
N-Nitroso-di-n-propylamine	50	40.51	50	43.82	81	88	70-130	8	20
N-Nitrosodiphenylamine	50	41.33	50	44.95	83	90	70-130	8	20
Di-n-octylphthalate	50	41.19	50	45.88	82	92	70-130	11	20
Pentachlorophenol	50	43.66	50	48.12	87	96	20-160	10	20
Phenanthrene	50	45.54	50	49.98	91	100	70-130	9	20
Phenol	50	22.58	50	25.34	45	51	20-160	12	20
Pyrene	50	42.41	50	46.25	85	93	70-130	9	20
o-Toluidine	50	22.4	50	20.48	45*	41*	70-130	9	20
2,4,5-Trichlorophenol	50	43.65	50	48.02	87	96	70-130	10	20
2,4,6-Trichlorophenol	50	45.49	50	48.71	91	97	70-130	7	20
	ug/l	ug/l	ug/l	ug/l					

Batch number: 182180099A

Sample number(s): 9737848-9737853

Ethane	58.44	59.8	102	85-115
Ethene	60.85	61.44	101	83-115
Methane	59.83	63.87	107	85-115

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/23/2018 17:22

Group Number: 1973093

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NJ SOM02.2 VOAs

Batch number: 5182271AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9737848	100	101	93	94
9737849	101	99	92	93
9737851	114	104	91	95
9737852	113	108	90	94
9737853	112	104	92	95
9737854	114	104	93	94
Blank	109	108	92	93
LCS	106	99	97	102
LCSD	104	100	96	102
Limits:	70-130	70-130	70-130	70-130

Analysis Name: 1,4-Dioxane

Batch number: E182201AA

	Toluene-d8
9737848	89
9737849	89
9737850	89
Blank	91
LCS	91

Limits: 80-120

Analysis Name: 1,4-Dioxane

Batch number: E182231AA

	Toluene-d8
9737851	90
9737852	89
9737853	91
9737854	91
Blank	91
LCS	92

Limits: 80-120

Analysis Name: NJ SOM02.2 VOAs

Batch number: W182272AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9737850	100	102	95	96
Blank	101	102	96	95
LCS	100	100	99	101

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/23/2018 17:22

Group Number: 1973093

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NJ SOM02.2 VOAs
Batch number: W182272AA

Limits: 70-130 70-130 70-130 70-130

Analysis Name: NJ SOM02.2 SVs + Add'l Cmpds
Batch number: 18218WAU026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9737848	19	32	66	57	64	77
9737849	33	39	91	71	73	79
9737850	27	34	85	69	71	66
9737851	31	36	91	67	71	77
9737852	31	36	86	69	70	76
9737853	31	43	101	73	76	85
Blank	31	44	98	69	73	97
LCS	46	59	88	72	75	86
LCSD	51	64	94	78	80	95

Limits: 15-110 15-110 15-110 30-130 30-130 30-130

Analysis Name: Dissolved Gases (3)
Batch number: 182180099A

	Propene
9737848	99
9737849	90
9737850	94
9737851	88
9737852	92
9737853	102
Blank	104
LCS	103

Limits: 57-128

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.



Lancaster
Laboratories

Analysis Request / Environmental Services Chain of Custody

1 of 1

For Eurofins Lancaster Laboratories Use Only

Group No.: 1973093 Sample Nos.: 9737848-54

Acc't: 07032 SF: SCR No.: 228430

Cooler No.: _____

38984

Cooler Temperature upon receipt: 2.5 °C

Container No.: 2

Facility Name: Chambers Works		Project Manager: Tom McGee			Analyses Required							Comments: DKQP		
Facility Contact: Tom McGee		Facility Contact Phone No.: 856-540-2402			Methane, Ethane, Ethene	TCL Volatiles (8260C)	1,4-Dioxane (8260C SIM)							
Facility Address: Chambers Works Plant		Job No.: 77201000-WH06507141												
Rt 130 & Canal Road		Release No.:												
Deepwater NJ 08023		PO Number: LBIO-67047												
Sampler(s): <u>J. Gomes, A. Treglia, B. Amormay</u>														
Project Name: SC SPB WELL SAMPLING 2H18														
Sample Identification	Date Collected	Time Collected	Matrix	Containers			Methane, Ethane, Ethene	TCL Volatiles (8260C)	1,4-Dioxane (8260C SIM)	Condition upon receipt: <u>Intact</u>				
				Volume (ml)	Preserv	No.								
SPBGW2H18-G05-M08B	8/3/18	0856	WW	40	HCl	8	X	X	X					
SPBGW2H18-G05-P03B		10/1	WW	40	HCl	8	X	X	X					
SPBGW2H18-H05-M01B		12/17	WW	40	HCl	8	X	X	X					
SPBGW2H18-H05-M03B		11/26	WW	40	HCl	8	X	X	X					
SPBGW2H18-H05-M04B		13/13	WW	40	HCl	8	X	X	X					
SPBGW2H18-EB-19		0800	WW	40	HCl	8	X	X	X					
SPBGW1H18-TB-19		↓	WW	40	HCl	4	X	X						
Turnaround Time Requested (please circle): <input checked="" type="radio"/> Standard <input type="radio"/> RUSH Number of days: <u>8</u>							Special Instructions:							
Bottles Relinquished by:	Date <u>8/3/18</u>	Time <u>1500</u>	Bottles Received by:							Date: <u>8/3/18</u>	Time: <u>1715</u>			
Bottles Relinquished by:	Date <u>8/3/18</u>	Time <u>1500</u>	Bottles Received by:							Date: <u>8/3/18</u>	Time: <u>1715</u>			
Bottles Relinquished by:	Date <u>8/3/18</u>	Time <u>1500</u>	Bottles Received by:							Date: <u>8/3/18</u>	Time: <u>1715</u>			
Bottles Relinquished by:	Date <u>8/3/18</u>	Time <u>1500</u>	Bottles Received by:							Date: <u>8/3/18</u>	Time: <u>1715</u>			

Analysis Request / Environmental Services Chain of Custody

1 of 1

For Eurofins Lancaster Laboratories Use Only

Group No.: 1973093 Sample Nos.: 9737848-54

Acc't: 07032 SF: 279523 SCR No: 228430

Cooler No.: _____

Cooler Temperature upon receipt: 46 °C Container No.: 1

38982

Facility Name: Chambers Works		Project Manager: Tom McGee			Analyses Required							Comments:				
Facility Contact: Tom McGee		Facility Contact Phone No.: 856-540-2402										DKQP				
Facility Address: Chambers Works Plant		Job No.: 77201000-WH06507141														
Rt 130 & Canal Road		Release No.:														
Deepwater NJ 08023		PO Number: LBIO-67047														
Sampler(s): <i>J. Gomes, A. Treglia, B. Ammerman</i>		Project Name: SC SPB WELL SAMPLING 2H18														
Sample Identification	Date Collected	Time Collected	Matrix	Containers									TCL Semivolatiles (8270D)			
				Volume (ml)	Preserv	No.										
SPBGW2H18-G05-M08B	8/3/18	0856	WW	250	None	2	X									
SPBGW2H18-G05-P03B		1011	WW	250	None	2	X									
SPBGW2H18-H05-M01B		1217	WW	250	None	2	X									
SPBGW2H18-H05-M03B		1126	WW	250	None	2	X									
SPBGW2H18-H05-M04B		1313	WW	250	None	2	X									
SPBGW2H18-EB-19	<i>✓</i>	0800	WW	250	None	2	X									
Turnaround Time Requested (please circle): <input checked="" type="radio"/> Standard <input type="radio"/> RUSH Number of days: 8								Special Instructions:								
Bottles Relinquished by: <i>Bottle Stopper MP</i>	Date 8/3/18	Time 1515	Bottles Received by:												Date: 8-3-18	Time: 1715
Bottles Relinquished by: <i>G. Ammerman</i>	Date 8/3/18	Time 1500	Bottles Received by:												Date: 8-3-18	Time: 1715
Bottles Relinquished by: <i>G. Ammerman</i>	Date	Time	Bottles Received by:												Date: 8-3-18	Time: 1715
Bottles Relinquished by: <i>G. Ammerman</i>	Date	Time	Bottles Received by:												Date: 8-3-18	Time: 1715

Client: Chambers Works**Delivery and Receipt Information**

Delivery Method: ELLE Courier Arrival Timestamp: 08/03/2018 17:15
 Number of Packages: 2 Number of Projects: 1
 State/Province of Origin: NJ

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCI
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Cory Jeremiah (10469) at 18:10 on 08/03/2018

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT42-03	4.6	DT	Wet	Y	Loose/Bag	N
2	DT42-03	2.5	DT	Wet	Y	Loose/Bag	N

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	mL	milliliter(s)
C	degrees Celsius	MPN	Most Probable Number
cfu	colony forming units	N.D.	non-detect
CP Units	cobalt-chloroplatinate units	ng	nanogram(s)
F	degrees Fahrenheit	NTU	nephelometric turbidity units
g	gram(s)	pg/L	picogram/liter
IU	International Units	RL	Reporting Limit
kg	kilogram(s)	TNTC	Too Numerous To Count
L	liter(s)	µg	microgram(s)
lb.	pound(s)	µL	microliter(s)
m3	cubic meter(s)	umhos/cm	micromhos/cm
meq	milliequivalents	MCL	Maximum Contamination Limit
mg	milligram(s)		
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
P^	Concentration difference between the primary and confirmation column > 40%. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.

Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.